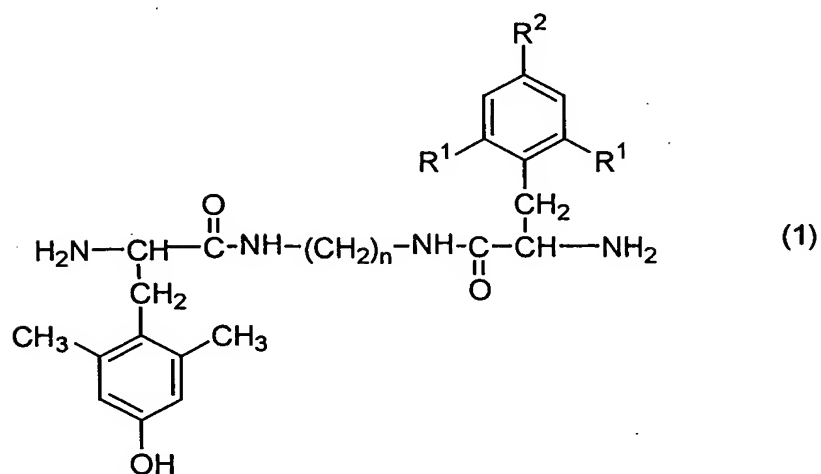


## ABSTRACT OF THE DISCLOSURE

1. A peptide derivative represented by the following formula (1) or a salt thereof;



5 , wherein  $R^1$  is hydrogen atom or methyl group,  $R^2$  is hydrogen atom or hydroxy group and  $n$  is an integer of 1-8, provided that  $R^1$  is hydrogen atom when  $R^2$  is hydrogen atom, which has specific and high binding affinity with the  $\mu$ -opioid receptor.